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PAGE 8/8 \* RCVD AT 11/2/2005 3:25:38 PM [Eastern Standard Time] \* SVR:USPTO-EFXRP-6/27 \* DNIS:2738300 \* CSID:7814019986 \* DURATION (mm-ss):03-36

OCT 27 2005

PTO/SB/08A (02-03)

Approved for use through 04/30/2003. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1448/PTO

# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT** (Use as many sheets as necessary)

**Complete if Known**

Sheet 1 of 1 Application Number 10/749,103  
Filing Date December 30, 2003  
First Named Inventor Rafael Reif  
Art Unit 2891  
Examiner Name David A. Zarneke  
Attorney Docket Number MJT-136BUS

Examiner Initials*	Cite No. <sup>1</sup>	U. S. PATENT DOCUMENTS			
		Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/D.Z./		US- 5,504,376	04/02/1996	Sugahara et al.	
		US- 4,939,568	07/03/1990	Kato et al.	
		US- 5,902,118	05/11/1999	Hubner	
		US- 5,904,582	05/18/1999	Nulman	
		US- 5,998,808	12/07/1999	Matsushita	
		US- 6,525,415	02/25/2003	Koyanagi et al.	
		US- 6,600,173	07/29/2003	Tiwari	
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Examiner Initials*	Cite No. <sup>1</sup>	FOREIGN PATENT DOCUMENTS			
		Foreign Patent Document Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>4</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear

Examiner Signature /David Zarneke/ Date Considered 07/20/2007

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PTO/SB/08B (02-03)

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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/749,103
				Filing Date	December 30, 2003
				First Named Inventor	Rafael Reif
				Art Unit	2823
				Examiner Name	<del>Not Yet Assigned</del> David Zarneke
				Attorney Docket Number	MIT-136BUS
Sheet	1	of	1		

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 2

Application Number	10/749,103
Filing Date	December 30, 2003
First Named Inventor	Rafael Reif
Art Unit	2025 2891
Examiner Name	Not Yet Assigned Zarneke
Attorney Docket Number	MIT-136BUS

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
↓ ID.Z.		US- 5,236,118	08/17/1993	Bower et al.	
		US- 5,270,261	12/14/1993	Bertin et al.	
		US- 5,370,301	12/06/1994	Belcher et al.	
		US- 5,391,257	02/21/1995	Sullivan et al.	
		US- 5,563,084	10/08/1996	Ramm et al.	
		US- 5,669,545	09/23/1997	Pham et al.	
		US- 5,985,693	11/16/1999	Leedy	
		US- 6,027,958	02/22/2000	Vu et al.	
		US- 2002/0135075	09/26/2002	Leedy	
		US- 6,466,892	10/15/2002	Suga	
		US- 2004/0124538	07/01/2004	Reif et al.	
		US- 2004/0219765	11/04/2004	Reif et al.	
		US- 2004/0126994	07/01/2004	Reif et al.	
		US-			
		US-			

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
ID.Z./		EP 1 041 624 A1	10/04/2000	Interuniv.versitat Microelektronik Carlsruhe VZW	
ID.Z./		DE 100 47 963 A 1	03/29/2001	Sony Corp.	
ID.Z./		EP 1 432 032 A2	06/23/2004	Zel Serch - Advanced Energy Laboratory Co. LTD.	

Examiner Signature	/David Zarneke/	Date Considered	07/23/2007
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		Filing Date	December 30, 2003		
		First Named Inventor	Rafael Reif		
		Art Unit	2823 2891		
		Examiner Name	Not Yet Assigned Zarneke		
Sheet	2	of	2	Attorney Docket Number	MIT-136BUS

OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/D.Z./		PCT/US 03/41559 International Search Report dated March 11, 2005	
/D.Z./		PCT/US 03/41557 International Search Report dated March 16, 2005	

Examiner Signature	/David Zarneke/	Date Considered	07/23/2007
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† Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEE: OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1448/PTO

**SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/749,103
Filing Date	December 30, 2003
First Named Inventor	Rafael Reif
Art Unit	<del>2820</del> 2891
Examiner Name	Not Yet Assigned Zarnick
Attorney/Agent Number	MIT-136BUS

Sheet	1	of	1
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## U. S. PATENT DOCUMENTS

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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>o</sup>
		Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>4</sup> (if known)	MM-DD-YYYY			
/D.Z.		EP 1 151 962 A1	07/11/2001	STMicroelectronics S.r.l.		

Examiner Signature	/David Zarneke/	Date Considered	07/23/2007
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STATEMENT BY APPLICANT**

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Application Number	10/749,103
Filing Date	December 30, 2003
First Named Inventor	Rafael Reif
Art Unit	2223-2891
Examiner Name	Not Yet Assigned Zarneke
Attorney Docket Number	MIT-136BUS

## U. S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

[illegible]

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First Named Inventor	Rafael Reif
Art Unit	2623 2891
Examiner Name	Not Yet Assigned Zarneke
Attorney Docket Number	MIT-136BUS

Sheet 1 of 2

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		Number-Kind Code <sup>2</sup> (if known)			
/D.Z./ ↓		US- 5,706,578	01/13/1998	Hubner	
		US- 5,767,009	06/16/1998	Yoshida et al.	
		US- 5,825,080	10/20/1998	Imaoka et al.	
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/D.Z./		US- 2002/00774670A1	06/20/2002	Suga	
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		Country Code <sup>3</sup> * Number * Kind Code <sup>4</sup> (if known)				
/D.Z./		2 645 681	04/07/1989	Thomson CSF		
/D.Z./		WO 02/09182 A1	01/31/2002	Christian Val		

Examiner Signature	/David Zarneke/	Date Considered	07/23/2007
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	<b>Filing Date</b>		December 30, 2003		
	<b>First Named Inventor</b>		Rafael Reif		
	<b>Art Unit</b>		<del>2823</del> 2891		
	<b>Examiner Name</b>		Not Yet Assigned Zarneke		
<b>Sheet</b>	2	<b>of</b>	2	<b>Attorney Docket Number</b>	MIT-136BUS

**OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/D.Z./		Y. HAYASHI, Fabrication of Three Dimensional IC Using "Cumulatively Bonded IC" (CUBIC) Technology" Symposium on VLSI Technology, 1990, pages 95-96	
/D.Z./		PCT/US/03/41514 International Search Report June 17, 2004	

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## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of  
Invention

METHOD OF FORMING A MULTI-LAYER  
SEMICONDUCTOR STRUCTURE INCORPORATING A  
PROCESSING HANDLE MEMBER

Application Number: 10/749103



Confirmation Number: 3165

First Named Applicant: Rafael Reif

AU: 2891

Attorney Docket Number: MIT-136BUS

Examiner:

Search string: ( 4313126 or 4402761 or 4456888 or 4599704  
or 4986861 or 5156997 or 5206186 or 5445994  
or 5821138 or 5923087 or 6441478 ).pn.

Zarneke

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
/D.Z.	1	4313126	1982-01-26	Krumm et al.			
<input type="checkbox"/>	2	4402761	1983-09-06	Feist			
<input type="checkbox"/>	3	4456888	1984-01-26	Ayasli			
<input type="checkbox"/>	4	4599704	1986-07-08	Mazin			
<input type="checkbox"/>	5	4986861	1991-01-22	Nishida et al.			
<input type="checkbox"/>	6	5156997	1992-10-20	Kumar et al.			
<input type="checkbox"/>	7	5206186	1993-04-27	Neugebauer et al.			
<input type="checkbox"/>	8	5445994	1995-08-29	Gilton			
<input type="checkbox"/>	9	5821138	1998-10-13	Yamazaki et al.			
<input checked="" type="checkbox"/>	10	5923087	1999-07-13	Suzuki et al.			
/D.Z.	11	6441478	2002-08-27	Park			

Signature

Examiner Name	Date
/David Zarneke/	07/23/2007

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Attorney Docket Number	MIT-138BUS

Sheet

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of

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**OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS**

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/D.Z./		PETER CLARKE, IEDM Late Paper: IBM Shows How to Stack for 3D Circuitry, Silicon Strategies.Com, November 28, 2002, Pages 1-2, LONDON	
/D.Z./		TRU-SI TECHNOLOGIES, Through-Silicon Vias, Tru-Si Technologies Home Page, April 7, 2003, Page 1, Sunnyvale, California	
/D.Z./		MARK LAPEDUS, Tezzaron Devises Multi-Wafer Stack for 3-D Chips, Semiconductors EE Times, June 30, 2003, Pages 1-3, Naperville, Illinois	

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